

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NUMBER: **10/660,122**
FILING DATE: **09/11/2003**
FIRST NAMED INVENTOR: **David J. Ecker**
ART UNIT: **1637**
EXAMINER NAME: **Jeffrey Norman Fredman**
ATTORNEY DOCKET NUMBER: **DIBIS-0002US.P3 (10450)**
TITLE: **METHOD FOR RAPID IDENTIFICATION
OF PATHOGENS IN HUMANS AND
ANIMALS**

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ALEXANDRIA, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
Under 37 C.F.R. §§ 1.56 and 1.97-98

SIR:

Pursuant to the provisions of 37 C.F. R. §§ 1.56 and 1.97-98, enclosed herewith is PTO Forms PTO/SB/08A and PTO/SB/08B listing references for consideration by the Examiner.

Documents disclosed herein are those compiled from United States Patent Applications related to the instant application. Examiner has already considered many of these documents in the related cases in which they were filed.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

This Information Disclosure Statement is being filed:

- ☐ within three months of the filing date of the application, or date of entry into the national stage of an international application, or before the mailing date of a first office action on the merits, whichever event last occurred;
- ☒ before the mailing of a first official action after filing of a request for continued examination (RCE) under 37 C.F.R. § 1.114;
- ☐ after three months of the filing date of this national application or the date of entry of the national stage in an international application, or after the mailing date of the first official action on the merits, whichever event last occurred, but before that mailing date of the first office action to occur of either: (1) a final action under 37 C.F.R. § 1.113; or (2) an action that otherwise closes prosecution in the application, and:

☐ attached hereto is the fee set forth under 37 C.F.R. § 1.17(p) for submission of this Information Disclosure Statement under 37 C.F.R. § 1.97(c); OR

☐ Applicant certifies pursuant to 37 C.F.R. § 1.97(e) that:

☐ each item of the information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement;

OR

☐ no item of information contained in this Information Disclosure Statement was cited in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Statement.

☐ on or before the payment of the issue fee but after the mailing date of the first to occur of either: (1) a final action under 37 C.F.R. § 1.113; (2) a notice of

allowance under 37 C.F.R. § 1.311; or (3) an action that otherwise closes prosecution in the application, and:

☐ Applicant certifies pursuant to 37 C.F.R. § 1.97(e) that:

☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement;

OR

☐ no item of information contained in this Information Disclosure Statement was cited in a counterpart foreign application and, to the knowledge of the person signing this certification after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated under 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Statement. AND

☐ attached hereto is the fee set forth under 37 C.F.R. § 1.17(p) for submission of this Information Disclosure Statement under 37 C.F.R. § 1.97(c); OR

☐ after the payment of the issue fee. Applicant requests that the information contained in this Information Disclosure Statement be placed in the file according to 37 C.F.R. § 1.97(i), although the information may not be considered by the USPTO.

☒ Enclosed is a copy of each listed reference that may be material to the examination of this application, and for which there may be a duty to disclose.

☐ This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior application No. _____, filed on _____, and the references cited therein are hereby referenced, but are not required to be provided in this application under 37 C.F.R. § 1.98(d).

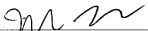
☒ This application was filed after June 30, 2003. Therefore, pursuant to the waiver of the requirements under 37 C.F.R. § 1.98(a)(2)(i), copies of each U.S. Patent and each

U.S. Patent Application Publication are not required to be submitted. Copies of any foreign patent documents and non-patent literature cited herein are enclosed.

☐ Each item of information contained in this Information Disclosure Statement was cited in the communication from a foreign patent office in a counterpart application, and the communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement 37 C.F.R. § 1.704(d).

☒ Applicant submits that no fee is required for the consideration of this Information Disclosure Statement. However, if a fee is due, the Commissioner is hereby authorized to charge Deposit Account No 500252 referencing case number DIBIS-0002US.P3. Consideration of the listed references and favorable action are solicited.

Respectfully submitted,



Jeffrey Landes, Esq.
Registration No.: 55,355
Isis Pharmaceuticals, Inc.
1896 Rutherford Road
Carlsbad, CA 92008

Dated: Feb. 21, 2007

Substitute for form 1449PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 11

Complete if Known

Application Number	10/660,122
Filing Date	09/11/2003
First Named Inventor	David J. Eckar
Art Unit	1637
Examiner Name	Jeffrey Norman Fredman
Attorney Docket Number	DIBIS-0002US.P3

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	CQ	US-5,484,908	01-16-1996	Froehler et al.	
	CR	US-5,502,177	03-26-1996	Montecucci et al.	
	CS	US-5,503,980	04-02-1996	Cantor	
	CT	US-5,527,675	06-18-1996	Coull et al.	
	CU	US-5,580,733	12-03-1996	Levis et al.	
	CV	US-5,625,184	04-29-1997	Vestal et al.	
	CW	US-5,645,985	07-08-1997	Froehler et al.	
	CX	US-5,686,242	11-11-1997	Braccio et al.	
	CY	US-5,700,642	12-23-1997	Mouffette et al.	
	CZ	US-5,759,771	06-02-1998	Tilanus	
	DA	US-5,763,588	07-09-1998	Matteucci et al.	
	DB	US-5,770,367	06-23-1998	Southern et al.	
	DC	US-5,777,324	07-07-1998	Hiltskamp	
	DD	US-5,830,653	11-03-1998	Froehler et al.	
	DE	US-5,830,655	11-03-1998	Mouffette et al.	
	DF	US-5,831,765	12-22-1998	Koster	
	DG	US-5,864,137	01-26-1999	Becker et al.	
	DH	US-5,869,242	02-09-1999	Kamb	
	DI	US-5,871,697	02-16-1999	Rothberg et al.	
	DJ	US-5,876,936	03-02-1999	Ju	
	DK	US-5,928,906	07-27-1999	Koster et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ² - Number ³ - Kind Code ² (if known)				
	DL	DE19802905	07-29-1999	Braker Daltonik		
	DM	DE19824280	12-02-1999	Braker Daltonik		
	DN	DE19832167	05-31-2000	Braker Saxonix		
	DO	EP1138782	10-14-2001	Braker Saxonix		
	DP	EP1234888	08-28-2002	Braker Saxonix		
	DQ	EP1333101	08-06-2003	Braker Daltonik		
	DR	GB2325002	11-11-1998	Braker Franzen		
	DS	GB2339905	02-09-2000	Braker Daltonik		
	DT	WO 93/03186	02-18-1993	Hoffman-La Roche		
	DU	WO 94/16101	07-21-1994	Koster		

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of the form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbol as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete the form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2 of 11

Complete if Known

Application Number 10/660,122
 Filing Date 09/11/2003
 First Named Inventor David J. Ecker
 Art Unit 1637
 Examiner Name Jeffrey Norman Fredman
 Attorney Docket Number DIBIS-0002US.P3

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	DV	US-5,981,176	11-09-1999	Wallace	
	DW	US-5,994,066	11-30-1999	Bergeron et al.	
	DX	US-6,001,564	12-14-1999	Bergeron et al.	
	DY	US-6,005,096	12-21-1999	Mattoccio et al.	
	DZ	US-6,007,992	12-28-1999	Lin et al.	
	EA	US-6,028,183	02-22-2000	Lin et al.	
	EB	US-6,043,031	03-28-2000	Koster et al.	
	EC	US-6,046,005	04-04-2000	Ju et al.	
	ED	US-6,051,378	04-18-2000	Monforte et al.	
	EE	US-6,054,278	04-25-2000	Dodge et al.	
	EF	US-6,074,823	06-13-2000	Koster	
	EG	US-6,090,558	07-18-2000	Butler et al.	
	EH	US-6,104,028	08-15-2000	Hunter et al.	
	EI	US-6,111,251	08-29-2000	Hillenkamp	
	EJ	US-6,140,053	10-31-2000	Koster	
	EK	US-6,146,144	11-14-2000	Fowler et al.	
	EL	US-6,153,389	11-28-2000	Haarer et al.	
	EM	US-6,159,681	12-12-2000	Zehala	
	EN	US-6,180,372	01-30-2001	Franzen	
	EO	US-6,194,144	02-27-2001	Koster	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. 1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	4
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	EP	WO 94/21822	09-24-1994	Koster		
	EQ	WO 96/29431	09-26-1996	Sequenom		
	ER	WO 96/32504	10-17-1996	Trust of Boston		
	ES	WO 96/37630	11-28-1996	SRI International		
	ET	WO 98/03684	01-29-1998	Hybridon Inc.		
	EU	WO 98/12355	03-26-1998	Genetec Sys.		
	EV	WO 98/14616	04-09-1998	Perceptive Bio.		
	EW	WO 98/15652	04-16-1998	Brix Genomics		
	EX	WO 98/20020	05-14-1998	Sequenom Inc.		
	EY	WO 98/20157	05-14-1998	Infectio Diagnost.		
	EZ	WO 98/26095	06-18-1998	Genetec Sys.		

Examiner Signature	Date Considered
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 3 of 11

Complete if Known

Application Number 10/860,122
Filing Date 09/11/2003
First Named Inventor David J. Eckar
Art Unit 1637
Examiner Name Jeffrey Norman Fredman
Attorney Docket Number DIBIS-0002US.P3

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No.	Document Number Number - Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	FA	US-6,197,498	03-06-2001	Koster	
	FB	US-6,218,118	04-17-2001	Sampson et al.	
	FC	US-6,221,587	04-24-2001	Eckar et al.	
	FD	US-6,221,601	04-24-2001	Koster et al.	
	FE	US-6,221,605	04-24-2001	Koster	
	FF	US-6,225,450	05-01-2001	Koster	
	FO	US-6,235,476	05-22-2001	Bergmann et al.	
	FH	US-6,235,478	05-22-2001	Koster	
	FI	US-6,235,480	05-22-2001	Shultz et al.	
	FJ	US-6,238,871	05-29-2001	Koster	
	FK	US-6,238,927	05-29-2001	Abrams et al.	
	FL	US-6,258,538	07-10-2001	Koster et al.	
	FM	US-6,265,716	07-24-2001	Hunter et al.	
	FN	US-6,268,129	07-31-2001	Gut et al.	
	FO	US-6,268,131	07-31-2001	Kang et al.	
	FP	US-6,268,146	07-31-2001	Shultz et al.	
	FQ	US-6,270,973	08-07-2001	Lewis et al.	
	FR	US-6,270,974	08-07-2001	Shultz et al.	
	FS	US-6,277,573	08-21-2001	Koster	
	FT	US-6,277,578	08-21-2001	Shultz et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Country Code ² - Number ² - Kind Code ³ (if known)				
	FU	WO 98/31830	07-23-1998	Brax Genomics		
	FV	WO 98/40520	09-17-1998	Hybridon Inc.		
	FW	WO 99/63319	02-04-1999	Rapigene, Inc.		
	FX	WO 99/29898	06-17-1999	Max-Planck		
	FY	WO 99/57318	11-11-1999	Sequenom Inc.		
	FZ	WO 01/07648	02-01-2001	Artus Genosc.		
*	GA	WO 01/23604	04-05-2001	Infectio Diagnost.		
	GB	WO 01/32930	05-10-2001	California Instit.		
	GC	WO 01/51661	07-19-2001	Amsterdam Support		
	GD	WO 01/57263	08-09-2001	Advion Biosci.		

* A copy of this reference will not be forwarded to the U.S. Patent and Trademark Office since it is too voluminous and costly obtainable by the Examiner

Examiner Signature	Date Considered
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 4 of 11

Complete if Known

Application Number	10/660,122
Filing Date	09/11/2003
First Named Inventor	David J. Eckert
Art Unit	1637
Examiner Name	Jeffrey Norman Fredman
Attorney Docket Number	DIBIS-0002US.P3

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	GE	US-6,300,076	10-09-2001	Koster	
	GF	US-6,312,893	11-06-2001	Van Ness et al.	
	GG	US-6,312,902	11-06-2001	Shultz et al.	
	GH	US-6,361,940	03-26-2002	Van Ness et al.	
	GI	US-6,372,424	04-16-2002	Brow et al.	
	GJ	US-6,391,551	05-21-2002	Shultz et al.	
	GK	US-6,423,566	07-23-2002	Hillenkamp et al.	
	GL	US-6,428,955	08-06-2002	Koster et al.	
	GM	US-6,432,651	08-13-2002	Hughes et al.	
	GN	US-6,436,635	08-20-2002	Fu et al.	
	GO	US-6,436,640	08-20-2002	Simmons et al.	
	GP	US-6,458,533	10-01-2002	Felder et al.	
	GQ	US-6,468,748	10-22-2002	Monforte et al.	
	GR	US-6,475,736	11-05-2002	Stanton, Jr.	
	GS	US-6,479,239	11-12-2002	Anderson et al.	
	GT	US-6,500,621	12-31-2002	Koster	
	GU	US-6,558,902	05-06-2003	Hillenkamp	
	GV	US-6,566,055	05-20-2003	Monforte et al.	
	GW	US-6,582,916	06-24-2003	Schmidt et al.	
	GX	US-6,589,485	07-08-2003	Koster	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY			
	GY	WO 02/10186	02-07-2002	California Instit.		
	GZ	WO 02/18641	03-07-2002	Sequences-Gaulini		
	HA	WO 02/21108	03-14-2002	Large Scale		
	HB	WO 02/50307	06-27-2002	Chugai Seiyaku		
	HC	WO 02/57491	07-25-2002	Board of Trustees of the Island Council of Scientific		
	HD	WO 02/07278	10-03-2002			
	HE	WO 02/099034	12-12-2002	Infection Diagnostic		
	HF	WO 03/002750	01-09-2003	High Throughput		
	HG	WO 03/008636	01-30-2003	Infectio Diagnost.		
	HH	WO 03/016546	02-27-2003	Flinders Technol.		

Examiner
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 5 of 11

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First Named Inventor David J. Eckart
Art Unit 1637
Examiner Name Jeffrey Norman Fredman
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	HI	US-6,602,662	08-05-2003	Koster	
	HJ	US-6,605,433	08-12-2003	Flass et al.	
	HK	US-6,613,509	09-02-2003	Chen	
	HL	US-6,623,928	09-23-2003	Van Ness et al.	
	HM	US-6,682,889	08-12-2003	Flass et al.	
	HN	US-6,716,634	04-06-2004	Myerson	
	HO	US-2002/0045178	04-18-2002	Canter et al.	
	HP	US-2002/0137057	09-26-2002	Wold et al.	
	HQ	US-2002/0150903	10-17-2002	Koster	
	HR	US-2002/0150927	10-17-2002	Murray et al.	
	HS	US-2002/0168630	11-14-2002	Flaming et al.	
	HT	US-2003/0017487	01-23-2003	Xue et al.	
	HU	US-2003/0039976	02-27-2003	Haff	
	HV	US-2003/0064483	04-03-2003	Shaw et al.	
	HW	US-2003/0073112	04-17-2003	Zhang et al.	
	HX	US-2003/0113745	06-19-2003	Montfort et al.	
	HY	US-2003/0129589	07-10-2003	Koster et al.	
	HZ	US-2003/0134312	07-17-2003	Bergoyne	
	JA	US-2003/0148284	08-07-2003	Vinson et al.	
	JB	US-2003/0175729	09-18-2003	Van Eijk et al.	
	JC	US-2003/0194699	10-16-2003	Lewis et al.	
	JD	US-2003/0203398	10-30-2003	Brammucci et al.	
	JE	US-2003/0220844	11-27-2003	Mameli et al.	
	JF	US-2004/0005555	01-06-2004	Rothman et al.	
	JG	US-2004/0038206	02-26-2004	Zhang et al.	
	JH	US-2004/0038234	02-26-2004	Gut et al.	
	JI	US-2004/0038385	02-26-2004	Langlois et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ - Number ⁴ - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁵
	JJ	WO 03/060163	07-24-2003	Kaygne N.V.		
	JK	WO 03/089799	10-30-2003	Centre National		
	JL	WO 03/097869	11-27-2003	ConCipio GmbH		

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 6 of 11

Complete If Known

Application Number	10/660,122
Filing Date	09/11/2003
First Named Inventor	David J. Ecker
Art Unit	1637
Examiner Name	Jeffrey Norman Fredman
Attorney Docket Number	DBIS-0002US.P3

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	JM	BAHRMAND, A. R. et al., "Use of restriction enzyme analysis of amplified DNA coding for the hsp65 gene and polymerase chain reaction with universal primer for rapid differentiation of mycobacterium species in the clinical laboratory," <i>Scand. J. Infect. Diseases</i> (1998) 30(5):477-80.	
	JN	BAHRMAND, A. R. et al., "Polymerase chain reaction of bacterial genomes with single universal primer: application to distinguishing mycobacteria species," <i>Mol. Cell. Probes</i> (1996) 10(2):117-122.	
	JO	BASTIA, T. et al., "Organelle DNA analysis of Solanum and Brassica somatic hybrids by PCR with 'universal primers'," <i>Theoretical and Applied Genetics</i> (2001) 102(8):1265-1272.	
	JP	BOIVIN-JAHNS, V. et al., "Bacterial Diversity in a Deep-Subsurface Clay Environment," <i>Appl. Environ. Microbiol.</i> (1996) 62(9):3405-3412.	
	JQ	BOWEN, J. E. et al., "The native virulence plasmid combination affects the segregational stability of a theta-replicating shuttle vector in <i>Bacillus anthracis</i> var. New Hampshire," <i>J. Appl. Microbiol.</i> (1999) 87(2):270-278.	
	JR	CESPEDES, A. et al., "Polymerase chain reaction restriction fragment length polymorphism analysis of a short fragment of the cytochrome b gene for identification of flatfish species," <i>J. Food Protection</i> (1998) 61(12):1684-1685.	
	JS	CHEN, C. A. et al., "Universal primers for amplification of mitochondrial small subunit ribosomal RNA-encoding gene in scleractinian corals," <i>Marine Biotech.</i> (2000) 2(2):146-153.	
	JT	CHO, M. et al., "Application of the ribonuclease P (RNase P) RNA gene sequence for phylogenetic analysis of the genus <i>Saccharomonospora</i> ," <i>Internat. J. of Sys. Bacteriol.</i> (1998) 48:1223-1230.	
	JU	CORNELL, A. J. et al., "Polymerase chain reaction species diagnostic assay for <i>Anopheles quadrimaculatus</i> cryptic species (Diptera: Culicidae) based on ribosomal DNA ITS2 sequences," <i>Journal of Medical Entomology</i> (1996) 33(1):109-116.	
	JV	CRAIN, P. F. et al., "Applications of mass spectrometry to the characterization of oligonucleotides and nucleic acids," <i>Curr Opin Biotechnol</i> (1998) 9(1):25-34.	
	JW	CRESPILLO, M. et al., "Mitochondrial DNA sequences for 118 individuals from northeast Spain," <i>Int. J. Legal Med.</i> (2000) 114:130-132.	
	JX	DEFORCE, D. L. et al., "Analysis of oligonucleotides by ESI-MS," <i>Advances in Chromatography</i> (2000) 40:539-566.	

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Complete If Known

Application Number	10/660,122
Filing Date	09/11/2003
First Named Inventor	David J. Ecker
Art Unit	1637
Examiner Name	Jeffrey Norman Fredman
Attorney Docket Number	DIBIS-0002US.P3

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JY		DIAS NETO, E. et al., "Shotgun sequencing of the human transcriptome with ORF expressed sequence tags," <i>PNAS</i> (2000) 97(7):3491-3496.	
JZ		DINAUER, D. M. et al., "Sequence-based typing of HLA class II DQB1," <i>Tissue Antigens</i> (2000) 55(4):364-368.	
KA		DOUBERNET, S. et al., "A PCR-based method for identification of Lactobacilli at the genus level," <i>FEMS Microbiology Letters</i> (2002) 214(2):271-275.	
KB		FOX, A. et al., "Identification and detection of bacteria: electrospray MS-MS versus derivatization/GC-MS," <i>Proceedings of the ERDEC Scientific Conference on Chemical and Biological Defense Research</i> (1996) Aberdeen Proving Ground, Md., Nov. 15-18, 1994: p. 39-44.	
KC		GATTERMANN, N. et al., "Heteroplasmic Point Mutations of Mitochondrial DNA Affecting Subunit I of Cytochrome c Oxidase in Two Patients with Acquired Idiopathic Sideroblastic Anemia," <i>Blood</i> (1997) 90(12):4961-4972.	
KD		GRIFFIN, T. J. et al., "Single-nucleotide polymorphism analysis by MALDI-TOF mass spectrometry," <i>Trends in Biotechnology</i> (2000) 18(2):77-84.	
KE		HAHNER, S. et al., "Analysis of short tandem repeat polymorphisms by electrospray ion trap mass spectrometry," <i>Nucleic Acids Res.</i> (2000) 28(18):E82.	
KF		HANNIS, J. C. et al., "Genotyping complex short tandem repeats using electrospray ionization Fourier transform ion cyclotron resonance multistage mass spectrometry," <i>Proceedings of SPIE-The International Society for Optical Engineering</i> (2000) 3926:36-47.	
KG		HENCHAL, E. A. et al., "Sensitivity and specificity of a universal primer set for the rapid diagnosis of dengue virus infections by polymerase chain reaction and nucleic acid hybridization," <i>American Journal of Tropical Medicine and Hygiene</i> (1991) 45(4):418-428.	
KH		HERRMANN, B. et al., "Differentiation of <i>Chlamydia</i> spp. by Sequence Determination and Restriction Endonuclease Cleavage of RNase P RNA Genes," <i>J. Clin. Microbiol.</i> (1996) 34(8): 1897-1902.	
KI		HIGGINS, G. S. et al., "Competitive oligonucleotide single-base extension combined with mass spectrometric detection for mutation screening," <i>BioTechniques</i> (1997) 23(4):710-714.	
KJ		HONDA, K. et al., "Universal method of hypersensitive nested PCR toward forensic DNA typing," <i>International Congress Series</i> (1998) 7:28-30.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 8 of 11

Complete If Known

Application Number	10/660,122
Filing Date	09/11/2003
First Named Inventor	David J. Ecker
Art Unit	1637
Examiner Name	Jeffrey Norman Fredman
Attorney Docket Number	DIBIS-0002US.P3

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	KK	JOHNSON, Y. A. et al., "Precise molecular weight determination of CPR products of the rRNA intergenic spacer region using electrospray quadrupole mass spectrometry for differentiation of <i>B. subtilis</i> and <i>B. atrophaeus</i> , closely related species of bacilli," <i>J. Microbiol. Methods</i> (2000) 40(3):241-254.	
	KL	KRAHMER, M. T. et al., "Electrospray quadrupole mass spectrometry analysis of model oligonucleotides and polymerase chain reaction products: determination of base substitutions, nucleotide additions/deletions, and chemical modifications," <i>Anal. Chem.</i> (1999) 71(14):2893-2900.	
	KM	KRAHMER, M. T. et al., "MS for identification of single nucleotide polymorphisms and MS/MS for discrimination of isomeric PCR products," <i>Anal. Chem.</i> (2000) 72(17):4033-4040.	
	KN	LEIF, H. et al., "Isolation and characterization of the proton-translocating NADH: ubiquinone oxidoreductase from <i>Escherichia coli</i> ," <i>Eur. J. Biochem.</i> (1995) 230(2):538-548.	
	KO	LI, J. et al., "Single nucleotide polymorphism determination using primer extension and time-of-flight mass spectrometry," <i>Electrophoresis</i> (1999) 20(6):1258-1265.	
	KP	LIU, Y. et al., "An unusual gene arrangement for the putative chromosome replication origin and circadian expression of <i>dnaN</i> in <i>Synechococcus</i> sp. strain PCC 7942," <i>Gene</i> (1996) 172(1):105-109.	
	KQ	LOAKES, D. et al., "Nitroindoles as Universal Bases," <i>Nucleosides Nucleotides</i> (1995) 14:1001-1003.	
	KR	LOVE, B. C. et al., "Cloning and sequence of the <i>groESL</i> heat-shock operon of <i>Pasteurella multocida</i> ," <i>Gene</i> (1995) 166(1):179-180.	
	KS	MAIWALD, M. et al., "Characterization of contaminating DNA in Taq polymerase which occurs during amplification with a primer set for <i>Legionella</i> 5S ribosomal RNA," <i>Mol. Cell. Probes</i> (1994) 8(1):11-14.	
	KT	MARTEMYANOV, K. A. et al., "Extremely Thermostable Elongation Factor G from <i>Aquifex aeolicus</i> : Cloning, Expression, Purification, and Characterization in a Heterologous Translation System," <i>Protein Expr. Purif.</i> (2000) 18(3):257-261.	
	KU	MATRAY, T. J. et al., "Synthesis and properties of RNA analogs - oligoribonucleotide N3'-P5' phosphoramidates," <i>Nucleic Acids Res.</i> (1999) 27(20):3976-3985.	
	KV	MEISSMER, T. O. et al., "Discrimination of <i>Streptococcus pneumoniae</i> from other upper respiratory tract streptococci by arbitrarily primed PCR," <i>Chin. Biochem.</i> (1995) 28(6):567-572.	

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Sheet 9 of 11

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Application Number	10/660,122
Filing Date	09/11/2003
First Named Inventor	David J. Ecker
Art Unit	1637
Examiner Name	Jeffrey Norman Fredman
Attorney Docket Number	DIBIS-0002US.P3

NON PATENT LITERATURE DOCUMENTS

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	KW	MORSE, R. et al., "Nucleotide Sequence of Part of the <i>ropC</i> Gene Encoding the β' Subunit of DNA-Dependent RNA Polymerase from some Gram-Positive Bacteria and Comparative Amino Acid Sequence Analysis," <i>System Appl. Microbiol.</i> (1996) 19:150-157.	
	KX	MUDDIMAN, D. C. et al., "Application of secondary ion and matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for the quantitative analysis of biological molecules," <i>Mass Spectrometry Reviews</i> (1995) 14(6):383-429.	
	KY	MUDDIMAN, D. C. et al., "Important aspects concerning the quantification of biomolecules by time-of-flight secondary-ion mass spectrometry," <i>Applied Spectroscopy</i> (1996) 50(2):161-166.	
	KZ	MUDDIMAN, D. C. et al., "Precise mass measurement of a double-stranded 500 base-pair (309kDa) polymerase chain reaction product by negative ion electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry," <i>Rapid Commun. Mass Spec.</i> (1999) 13:1201-1204.	
	LA	MUHAMMAD, W. T. et al., "Electrospray ionization quadrupole time-of-flight mass spectrometry and quadrupole mass spectrometry for genotyping single nucleotide substitutions in intact polymerase chain reaction products in K-ras and p53," <i>Rapid Commun. Mass Spectrom.</i> (2002) 16(24):2278-2285.	
	LB	MUSHEGIAN, A. R. et al., "A minimal gene set for cellular life derived by comparison of complete bacterial genomes," <i>Proc. Natl. Acad. Sci. USA</i> (1996) 93(19):10268-10273.	
	LC	NAKAO, H. et al., "Development of a Direct PCR Assay for Detection of the Diphtheria Toxin Gene," <i>J. Clin. Microbiol.</i> (1997) 35(7):1651-1655.	
	LD	NAUMOV, G. I. et al., "Discrimination between the soil yeast species <i>Willipopsis saturnus</i> and <i>Willipopsis suavelens</i> by the polymerase chain reaction with the universal primer N21," <i>Microbiology (Moscow) (Translation of Mikrobiologiya)</i> (2000) 69(2):229-233.	
	LE	NISHIKAWA, T. et al., "Reconstitution of active recombinant Shiga toxin (Stx)1 from recombinant Stx1-A and Stx1-B subunits independently produced by <i>E. coli</i> clones," <i>FEMS Microbiol. Lett.</i> (1999) 178:13-18.	
	LF	REID, S. M. et al., "Primary diagnosis of foot-and-mouth disease by reverse transcription polymerase chain reaction," <i>Journal of Virological Methods</i> (2000) 89(1-2):167-176.	
	LG	REILLY, K. et al., "Design and use of 16S ribosomal DNA-directed primers in competitive PCR to enumerate proteolytic bacteria in the rumen," <i>Microbiol. Ecol.</i> (2002) 43(2):259-270.	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 10 of 11

Complete if Known

Application Number	10/860,122
Filing Date	09/11/2003
First Named Inventor	David J. Ecker
Art Unit	1637
Examiner Name	Jeffrey Norman Fredman
Attorney Docket Number	DIBIS-0002US.P3

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LH	ROSS, P. L. et al., "Analysis of DNA fragments from conventional and microfabricated PCR devices using delayed extraction MALDI-TOF mass spectrometry," <i>Anal. Chem.</i> (1998) 70(10):2067-2073.		
LJ	SALA, M. et al., "Ambiguous base pairing of the purine analogue 1-(2-deoxy-β-D-ribofuranosyl)-imidazole-4-carboxamide during PCR," <i>Nucleic Acids Res.</i> (1996) 24(17):3302-6.		
LJ	SAUER, S. et al., "A novel procedure for efficient genotyping of single nucleotide polymorphisms," <i>Nucleic Acids Res.</i> (2000) 28(5):E13.		
LK	SCHRAM, K. H., "Mass Spectrometry of Nucleic Acid Components," <i>Biomedical Applications of Mass Spectrometry</i> (1990) 34:203-280.		
LL	SCHULTZ, J. C. et al., "Polymerase chain reaction products analyzed by charge detection mass spectrometry," <i>Rapid Communications in Mass Spectrometry</i> (1999) 13(1):15-20.		
LM	SESHADRI, R. et al., "Differential Expression of Translational Elements by Life Cycle Variants of <i>Coccidia burnetii</i> ," <i>Infect. Immun.</i> (1999) 67(11):6026-6033.		
LN	SHAVER, Y. J. et al., "Variation in 16S-23S rRNA intergenic spacer regions among <i>Bacillus subtilis</i> 168 isolates," <i>Molecular Microbiology</i> (2001) 42(1):101-109.		
LO	TAKAHASHI, H. et al., "Characterization of <i>gyrA</i> , <i>gyrB</i> , <i>griA</i> and <i>griB</i> mutations in fluoroquinolone-resistant clinical isolates of <i>Staphylococcus aureus</i> ," <i>J. Antimicrob. Chemother.</i> (1998) 41(1):49-57.		
LP	TONG, J. et al., "Ligation reaction specificities of an NAD ⁺ -dependent DNA ligase from the hyperthermophile <i>Aquifex aeolicus</i> ," <i>Nucleic Acids Res.</i> (2000) 28(6):1447-1454.		
LQ	VAN AERSCHOT, A. et al., "In search of acyclic analogues as universal nucleosides in degenerate probes," <i>Nucleosides & Nucleotides</i> (1995) 14(3-5):1053-1056.		
LR	VAN CAMP, G. et al., "Amplification and sequencing of variable regions in bacterial 23S ribosomal rRNA genes with conserved primer sequences," <i>Curr. Microbiol.</i> (1993) 27(3):147-151.		
LS	VAN ERT, M. N. et al., "Mass spectrometry provides accurate characterization of two genetic marker types in <i>Bacillus anthracis</i> ," <i>Biotechniques</i> (2004) 37(4):642-651.		
LT	WALTERS, J. J. et al., "Genotyping single nucleotide polymorphisms using intact polymerase chain reaction products by electrospray quadrupole mass spectrometry," <i>Rapid Commun. Mass Spectrom.</i> (2001) 15(18):1752-1759.		

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Sheet 11 of 11

Complete if Known

Application Number	10/660,122
Filing Date	09/11/2003
First Named Inventor	David J. Ecker
Art Unit	1637
Examiner Name	Jeffrey Norman Fredman
Attorney Docket Number	DiBIS-0002US.P3

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	LU	WELHAM, K. J. et al., "The Characterization of Micro-organisms by Matrix-assisted Laser Desorption/Ionization Time-of-flight Mass Spectrometry," <i>Rapid Commun. Mass Spec.</i> (1988) 12:176-180.	
	LV	WID/JOATMODJO, M. N. et al., "Rapid identification of bacteria by PCR-single-strand conformation polymorphism," <i>J. Clin. Microbiol.</i> (1994) 32(12):3002-3007.	
	LW	WOLTER, A. et al., "Negative Ion FAB Mass Spectrometric Analysis of Non-Charged Key Intermediates in Oligonucleotide Synthesis: Rapid Identification of Partially Protected Dinucleoside Monophosphates," <i>Biomol. Environ. Mass Spectrom.</i> (1987) 14:111-116.	
	LX	WOO, T. H. S. et al., "Identification of <i>Leptospira</i> <i>inadeli</i> by continuous monitoring of fluorescence during rapid cycle PCR," <i>Systematic and Applied Microbiology</i> (1998) 21(1):89-96.	
	LY	WUNSCHIEL, D. et al., "Discrimination among the <i>B. cereus</i> group, in comparison to <i>B. subtilis</i> , by structural carbohydrate profiles and ribosomal RNA spacer region PCR," <i>Systematic and Applied Microbiology</i> (1994) 17(4):625-635.	
	LZ	WUNSCHIEL, D. S. et al., "Analysis of double-stranded polymerase chain reaction products from the <i>Bacillus cereus</i> group by electrospray ionization Fourier transform ion cyclotron resonance mass spectrometry," <i>Rapid Communications in Mass Spectrometry</i> (1996) 10(1):29-35.	
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